Rat CXCR7/RDC-1 Antibody

Monoclonal Mouse IgG_{2A} Clone # 896032

Catalog Number: MAB8399

DESCRIPTION

Species Reactivity	Rat
Specificity	Stains rat CXCR7/RDC-1 transfectants but not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG_{2A} Clone # 896032
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with rat CXCR7/RDC-1 Met1-Lys362 Accession # NP_445804
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

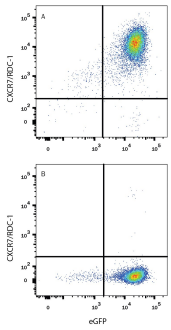
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10^6 cells	See Below

DATA

Flow Cytometry



Detection of CXCR7/RDC-1 in HEK293 Human Cell Line Transfected with Rat CXCR7/RDC-1 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) rat CXCR7/RDC-1 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Rat CXCR7/RDC-1 Monoclonal Antibody (Catalog # MAB8399) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB003).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CXCR7 (CXC Chemokine Receptor 7), also known as GPRN1, RDC-1 and Chemokine Orphan Receptor 1, is a 60 kDa member of the G-protein coupled receptor 1 family. It is expressed on multiple cell types, including neurons, T cells, NK cells, neutrophils, B cells plus angiogenic endothelial cells. CXCR7 forms both homodimers and heterodimers with CXCR4. It selectively binds I-TAC and SDF-1, and appears to involve β-Arrestin 2 during signaling. Notably, a CXCR7:CXCR4 heterodimer shows increased responsiveness to SDF-1, and I-TAC may actually block some SDF-1-mediated migration activity.

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